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[illegible]

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Leukotomy and Mental Illness

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AlphaGo Zero and Superhuman Performance

Nature is a scientific journal that publishes research on a wide range of topics, including physics, chemistry, biology, and medicine. AlphaGo Zero is a computer program that plays the game of Go, a board game of strategy and skill. Superhuman performance is a term used to describe a level of performance that is beyond human capabilities. [4]

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game
superhuman

AlphaGo Zero superhuman
AlphaGo Zero

AlphaGo Zero superhuman

Deepmind [5]

AlphaGo Master 五连胜 AlphaGo Master 四连胜 AlphaGo Master 三连胜
AlphaGo Zero 二连胜 AlphaGo Master 二连胜 AlphaGo Master 一连胜

AlphaGo Zero 4 AlphaGo Master 4 AlphaGo Zero 6[6] 6
AlphaGo Master 16 AlphaGo Zero 18 6
AlphaGo Zero 14 16 45 6

1 Nature Magazine AlphaGo Deepmind AlphaGo Zero
AlphaGo Master

2) AlphaGo Zero local trap
AlphaGo Zero superhuman
AlphaGo Zero

[AlphaGo Zero](#), [AlphaGo Master](#), [AlphaGo Master](#), [AlphaGo Master](#), [7], [Nature](#), [AlphaGo Zero](#), [AlphaGo Master](#), deep-learning, [AlphaGo Master](#)

AlphaGo Zero [8] superhuman
AlphaGo Zero

AlphaGo 対汎用ヒューマン 対Deepmind AlphaGo 対AlphaGo

Figure 9: Comparison between AlphaGo and AlphaGo Zero [9].

Turing Machine AlphaGo AlphaGo Zero AlphaGo

[illegible]

□□□□□□: “Go gaming is strictly defined within a very small space. Industrial automations are typically designed in well controlled environments, but not strictly defined. Car driving is regulated, but the environment is not well controlled” □

SAE level 5
SAE level 4
SAE level 4
SAE level 4

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[illegible][illegible][illegible][illegible]

[REDACTED]
[REDACTED] [10] [REDACTED]

[illegible][illegible]

Turing Machine
 Universal approximation theorem
 ...

Technological Singularity

□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □

[illegible]

1949 leukotomy

[illegible]

Karl Popper

[illegible]

Chinese room

The Third Wave

AlphaGo self-driving car

The Third Wave

Total Quality Management

Leukotomy AI: A Modern Approach

AlphaGo Zero AI: A Modern Approach [20]

AI: A Modern Approach AI

Chinese room

「judgement」を「判断」と訳すのは、
「判断」が「判断力」を意味するからである。

「判断力」は「判断力」を意味するからである。
「判断力」は「判断力」を意味するからである。

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「判断力」は「判断力」を意味するからである。
[21]

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1989 年「判断力」を意味するからである。
「判断力」は「判断力」を意味するからである。

AlphaGo 「判断力」を意味するからである。 [22] Socratic 「判断力」を意味するからである。
「判断力」は「判断力」を意味するからである。

2015 年 Bohunt Chinese School BBC 「Are Our Kids Tough Enough?」を意味するからである。

2012 年 PISA 「判断力」を意味するからである。
2015 年 2018 年 PISA 「判断力」を意味するからである。
「判断力」は「判断力」を意味するからである。

Bohunt Chinese School 「判断力」を意味するからである。
Bohunt 「判断力」を意味するからである。 [23]

PISA 「判断力」を意味するからである。
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Bohunt 「判断力」を意味するからである。 Confucianism 「判断力」を意味するからである。
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discipline – competition

Discipline **Bohunt**
 Socratic

competition

“ ” 2012

[illegible]

`[24]`

[25] Leukotomy

Technological Singularity: AI: A Modern Approach

□ □ □ □ □

☐ Karl Popper

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The Development of Liberal Arts and Sciences

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[1] AI: A Modern Approach
“Aristotle... was the first to formulate a precise set of laws governing the rational part of the mind.”(On page 5)

Wind Tunnel approach

[2]

[3] Leucotomy in England and Wales, 1942-1954 9284 41
28 25 2 4

personality intelligence 25
personality intelligence clinical condition 41
28 clinical condition personality intelligence

leucotomy

Renato M.E. Sabbatini Even lobotomy's preponents admitted that only one third of the operated patients would improve, while one-third remained the same, and one-third got worst
Leucotomy in England and Wales, 1942-1954 <http://www.cerebromente.org.br/n02/historia/lobotomy.htm>

one third would improve one-third remained the same clinical condition personality intelligence

personality intelligence leucotomy BRAIN Initiative

[4]

peer review
peer review

AlphaGo Zero 超human 通用 human AlphaGo Zero

[5] 破解 Go Deep Blue AlphaGo AlphaGo

[6] <http://www.alphago-games.com/> AlphaGo Zero AlphaGo Zero <https://www.101weiqi.com/chessbook/player/38348/>

[7] AlphaGo Master AlphaGo Master

[8] <http://www.alphago-games.com/> Full Strength of Alphago Zero, i.e. Final Form 40 Blocks 20 Blocks Not Full Strength of Alphago Zero Alphago Zero

[9]

AlphaGo Google AlphaGo AlphaGo Zero AlphaGo Human level artificial intelligence AlphaGo

[10] Universal approximation theorem Turing Machine

[11] In God We Trust God Trust

In Math We Trust In Math We Trust

[12]

[13]

[14]

[illegible]

emergent phenomena

[illegible]

[21] [\[21\]](#)

IT

[illegible][illegible]

[22] 中国科学院南京地质古生物研究所, 2003. 中国古生物志: 植物门. 北京: 地质出版社.

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[illegible]